

INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB2004/005219

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F04B17/03 F04B9/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 F04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	GB 2 130 305 A (LLEWELLYN MORGAN * PATRICK) 31 May 1984 (1984-05-31) the whole document	1-11
Y	GB 1 481 043 A (PATERSON CANDY INT LTD) 27 July 1977 (1977-07-27) the whole document	1-11
Y	GB 337 205 A (G. & J. WEIR, LIMITED; CHARLES RUSSELL LANG) 30 October 1930 (1930-10-30) the whole document	1-11
Y	WO 03/012296 A (ITW LIMITED; WOOD, NIGEL, CHARLES) 13 February 2003 (2003-02-13) the whole document	1-11
	----- -/-- -----	



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- *Z* document member of the same patent family

Date of the actual completion of the international search

9 March 2005

Date of mailing of the international search report

16/03/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Fistas, N

INTERNATIONAL SEARCH REPORT

Intern: il Application No
PCT/GB2004/005219

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GB 411 149 A (G. & J. WEIR LIMITED; HAROLD HILLIER; JAMES COLQUHOUN MACFARLANE; WILL) 4 June 1934 (1934-06-04) page 1, left-hand column, line 12 - right-hand column, line 55 -----	1
A	EP 0 334 994 A (SHIMADZU CORPORATION) 4 October 1989 (1989-10-04) abstract -----	1
A	GB 336 810 A (G. & J. WEIR, LIMITED; CHARLES RUSSELL LANG) 23 October 1930 (1930-10-23) page 1, left-hand column, line 41 - line 51 -----	1
A	EP 0 484 762 A (FAIP S.R.L. OFFICINE MECCANICHE) 13 May 1992 (1992-05-13) abstract -----	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

Intern: Application No
PCT/GB2004/005219

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
GB 2130305	A	31-05-1984	NONE	
GB 1481043	A	27-07-1977	DE 2525757 A1	02-01-1976
			FR 2273960 A1	02-01-1976
			IT 1036255 B	30-10-1979
			JP 1239510 C	13-11-1984
			JP 51008602 A	23-01-1976
			JP 59008671 B	25-02-1984
			US 4028018 A	07-06-1977
			ZA 7503550 A	26-05-1976
GB 337205	A	30-10-1930	NONE	
WO 03012296	A	13-02-2003	AU 2002355783 B2	28-10-2004
			CA 2423238 A1	13-02-2003
			CN 1464944 A	31-12-2003
			EP 1421278 A1	26-05-2004
			WO 03012296 A1	13-02-2003
			JP 2004537675 T	16-12-2004
			NZ 524989 A	26-11-2004
			US 2004001765 A1	01-01-2004
GB 411149	A	04-06-1934	NONE	
EP 0334994	A	04-10-1989	JP 1247769 A	03-10-1989
			JP 2745526 B2	28-04-1998
			DE 3874883 D1	29-10-1992
			DE 3874883 T2	04-03-1993
			EP 0334994 A1	04-10-1989
			US 5114314 A	19-05-1992
GB 336810	A	23-10-1930	NONE	
EP 0484762	A	13-05-1992	EP 0484762 A1	13-05-1992